



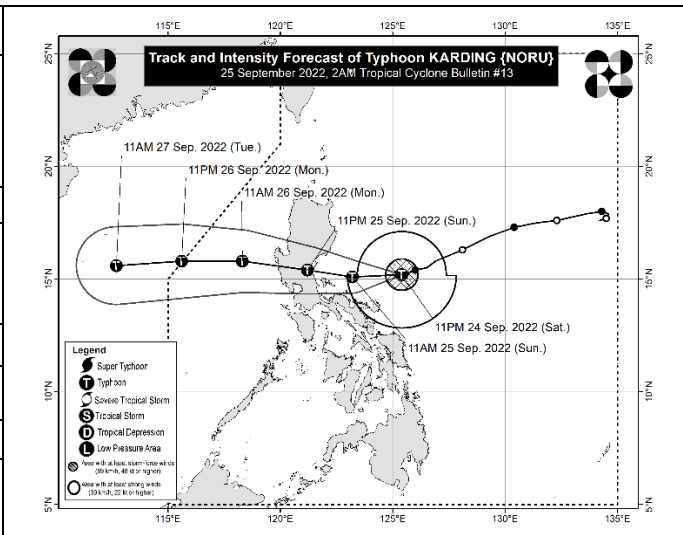
TROPICAL CYCLONE BULLETIN NO. 13
Typhoon KARDING (NORU)

Issued at 2:00 AM, 25 September 2022

Valid for broadcast until the next bulletin at 5:00 AM today

“KARDING” FURTHER INTENSIFIES WHILE MOVING WEST SOUTHWESTWARD

| |
|---|
| Location of Center (1:00 AM) |
| The center of the eye of Typhoon KARDING was estimated based on all available data including those from Daet Doppler Weather Radar at 355 km East of Baler, Aurora (15.2°N, 124.9°E) |
| Intensity |
| Maximum sustained winds of 140 km/h near the center, gustiness of up to 170 km/h , and central pressure of 970 hPa |
| Present Movement |
| West southwestward at 20 km/h |
| Extent of Tropical Cyclone Winds |
| Strong to typhoon-force winds extend outwards up to 270 km from the center |



TRACK AND INTENSITY FORECAST

| Date and Time | Center Position | | | Intensity | | Movement dir. and speed (km/h) |
|--|-----------------|-----------|---|------------|------|--------------------------------|
| | Lat. (°N) | Lon. (°E) | Location | MSW (km/h) | Cat. | |
| 12-Hour Forecast 11:00 AM 25 September 2022 | 15.1 | 123.2 | 170 km East Northeast of Infanta, Quezon | 155 | TY | W 20 |
| 24-Hour Forecast 11:00 PM 25 September 2022 | 15.4 | 121.2 | In the vicinity of General Tinio, Nueva Ecija | 140 | TY | W 20 |
| 36-Hour Forecast 11:00 AM 26 September 2022 | 15.8 | 118.3 | 220 km West of Dagupan City, Pangasinan | 120 | TY | W 25 |
| 48-Hour Forecast 11:00 PM 26 September 2022 | 15.8 | 115.6 | 510 km West of Dagupan City, Pangasinan (Outside the PAR) | 130 | TY | W 25 |
| 60-Hour Forecast 11:00 AM 27 September 2022 | 15.6 | 112.7 | 780 km West of Iba, Zambales (Outside the PAR) | 140 | TY | W 25 |

Prepared by: RPG

Checked by: JEMB



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| TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT | | | |
|--|---|---------|----------|
| TCWS No. | Luzon | Visayas | Mindanao |
| 3 Wind threat: Storm-force winds | The southern portion of Aurora (Dingalan, San Luis), the extreme northern portion of Quezon (General Nakar, Infanta) including Polillo Islands , and the northern portion of Camarines Norte (Vinzons, Paracale, Jose Panganiban, Capalonga) | - | - |
| | Warning lead time: 18 hours Potential impacts of winds: Moderate to significant threat to life and property | | |
| 2 Wind threat: Gale-force winds | The southern portion of Isabela (Dinapigue, San Guillermo, Echague, San Agustin, Jones), Quirino , Nueva Vizcaya , the southern portion of Benguet (Itogon, Tuba, Bokod, La Trinidad, Baguio City), the southern portion of La Union (Pugo, Rosario, Santo Tomas, Tubao, Agoo, Aringay), Pangasinan , Zambales , Bataan , Tarlac , Pampanga , Bulacan , Nueva Ecija , the rest of Aurora , Metro Manila , Cavite , Batangas , Laguna , Rizal , the northern and central portions of Quezon (Real, Mauban, Calauag, Perez, Alabat, Quezon, Tagkawayan, Guinayangan, Sampaloc, Lucban, City of Tayabas, Lucena City, Pagbilao, Padre Burgos, Atimonan, Agdangan, Unisan, Plaridel, Gumaca, Lopez, Pitogo, Dolores, Candelaria, Sariaya, Tiaong, Macalelon, General Luna, Catanauan, Buenavista), the rest of Camarines Norte , the northern portion of Camarines Sur (Del Gallego, Ragay, Lupi, Sipocot, Libmanan, Pamplona, Pasacao, San Fernando, Pili, Minalabac, Ocampo, Tigaon, Cabusao, Magarao, Gainza, Canaman, Camaligan, Milaor, Naga City, Bombon, Calabanga, Tinambac, Siruma, Goa, Lagonoy, San Jose, Garchitorena, Presentacion, Caramoan, Sagñay), and Catanduanes | - | - |
| | Warning lead time: 24 hours Potential impacts of winds: Minor to moderate threat to life and property | | |
| 1 Wind threat: Strong winds | The southern portion of Cagayan (Tuao, Solana, Enrile, Tuguegarao City, Iguig, Peñablanca), the rest of Isabela , the southern portion of Apayao (Conner), Kalinga , Abra , Mountain Province , Ifugao , the rest of Benguet , the southern portion of Ilocos Norte (Nueva Era, Badoc, Pinili, Banna, City of Batac, Currimao, Paoay, Marcos), Ilocos Sur , the rest of La Union , the rest of Quezon , the northern portion of Occidental Mindoro (Abra de Ilog, Paluan, Mamburao, Santa Cruz) including Lubang Islands , the northern portion of Oriental Mindoro (Puerto Galera, San Teodoro, Baco, City of Calapan, Naujan, Victoria, Pola), Marinduque , the rest of Camarines Sur , Albay , the northern portion of Sorsogon (Donsol, Pilar, Castilla, City of Sorsogon, Prieto Diaz, Gubat, Magallanes, Juban, Casiguran), and Burias Island | - | - |
| | Warning lead time: 36 hours Potential impacts of winds: Minimal to minor threat to life and property | | |



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HAZARDS AFFECTING LAND AREAS

Heavy Rainfall

- *This early morning through early afternoon:* Moderate to heavy rains over Isabela, Polillo Islands, Catanduanes, Camarines Norte, Camarines Sur, and Isabela. Light to moderate with at times heavy rains over mainland Cagayan, Quirino, Nueva Vizcaya, Aurora, Quezon, Marinduque, Romblon, and the rest of Bicol Region.
- *This early afternoon through tomorrow early morning:* Heavy to intense with at times torrential rains over Metro Manila, Zambales, Bataan, Tarlac, Pampanga, Nueva Ecija, Bulacan, Aurora, Rizal, and the northern portion of Quezon including Polillo Islands. Moderate to heavy with at times intense rains over Isabela, Nueva Vizcaya, Quirino, Benguet, Ifugao, Mountain Province, Pangasinan, Cavite, Laguna, the central portion of Quezon, and Camarines Norte. Light to moderate with at times heavy rains over Batangas, Mindoro Provinces, Marinduque, and the rest of Bicol Region.
- *Tomorrow early morning through early afternoon:* Heavy to intense with at times torrential rains over Zambales, Bataan, Pampanga, and Bulacan. Moderate to heavy with at times intense rains Metro Manila, Pangasinan, the rest of Central Luzon, Cavite, and Occidental Mindoro. Light to moderate with at times heavy rains over Mountain Province, Ifugao, Benguet, Quirino, Nueva Vizcaya, the rest of CALABARZON, and Oriental Mindoro.
- Under these conditions, **scattered to widespread flooding and rain-induced landslides are expected**, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities with significant antecedent rainfall.
- Due to the Southwest Monsoon partly influenced by KARDING, occasional to monsoon rains are also possible over Visayas and the rest of Southern Luzon, especially on their western sections. For more information, refer to the 24-Hour Public Weather Forecast issued at 4:00 PM yesterday. Furthermore, the issuance of Weather Advisory for Southwest Monsoon is not ruled out.

Severe Winds

- During the passage of KARDING, winds may reach **storm-force** in strength within any of the areas where Wind Signal No. 3 is hoisted, while winds may reach **gale-force in strength** within any of the areas where Wind Signal no.2 is hoisted. **Strong winds (strong breeze to near gale strength)** will be experienced within any of the areas where Wind Signal No. 1 is currently in effect.
- **The highest wind signal that will be hoisted for this typhoon is Wind Signal No. 4.**

Coastal Inundation

The combined effects of storm surge and high waves breaking along the coast may cause inundation or flooding over the coastal areas of Aurora, Quezon (east coast, including Polillo Islands), and Camarines Norte.

HAZARDS AFFECTING COASTAL WATERS

- Under the influence of KARDING, a marine gale warning remains in effect over the eastern seaboard of Luzon. For more information, refer to **Gale Warning #2 (Intermediate)** issued at 11:00 PM yesterday.
- In the next 24 hours, prevailing northeasterlies and the approaching typhoon will also bring **moderate to rough seas** (1.5 to 3.5 m) over the northern and western seaboard of Northern Luzon. These conditions may be risky for those using small seacrafts. Mariners are advised to take precautionary measures when venturing out to sea and, if possible, avoid navigating in these conditions.



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TRACK AND INTENSITY OUTLOOK

- Typhoon KARDING is forecast to track generally west southwestward or westward in the next 12 hours before turning more westward towards the east coast of southern portion of Aurora or northern portion of Quezon, where it is likely to make landfall this afternoon or evening. After crossing Central Luzon, the tropical cyclone is forecast to emerge over the West Philippine Sea this late evening or tomorrow early morning. KARDING will then continue tracking generally westward over the West Philippine Sea for the remainder of the forecast period.
- KARDING is forecast to continue rapidly intensifying in the near term and may make landfall at or near peak intensity of 155-175 km/h. While it is likely for this tropical cyclone to slightly weaken during its landfall and traverse of Central Luzon due to frictional effects, it is highly likely that KARDING will remain a typhoon while crossing the landmass.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 5:00 AM today.

DOST-PAGASA